

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Viginia 22313-1450 www.uspto.gov

ATTORNEY DOCKET NO. FIRST NAMED INVENTOR CONFIRMATIO APPLICATION NO. FILING DATE 03/14/2001 Qi Xu 901033-1005 3133 09/808,299

22145

7590

09/29/2003

KLEIN, O'NEILL & SINGH 2 PARK PLAZA SUITE 510 IRVINE, CA 92614

EXAMINER SINGH, SUNIL

PAPER NUMBER

ART UNIT 3673

DATE MAILED: 09/29/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

					/		
Office Action Summary		Application No. 09/808,299	Applicant(s)	Xu et al.	. / /		
		Examiner Sunil Singh		Art Unit 3673			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address V							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE							
Status							
1) 🗆	esponsive to communication(s) filed on						
2a) 💢	This action is FINAL . 2b) ☐ This ac	FINAL. 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.							
Disposition of Claims							
4) 💢	Claim(s) <u>45-50</u>		is/are	pending in the	application.		
4	a) Of the above, claim(s)		is/ar	e withdrawn fro	m considerat	ion.	
5) 🗆	☐ Claim(s)			is/are allowed.			
6) 💢	Claim(s) <u>45-50</u>	n(s) <u>45-50</u>			_ is/are rejected.		
7) 🗆	Claim(s)			is/are objected	to.		
8) Claims are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10)	The drawing(s) filed on is/are a) accepted or b) objected to by the Examiner.						
		olicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)	The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of:							
a) □ All b) □ Some* c) □ None of: 1. □ Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No.							
3. Copies of the certified copies of the priority documents have been received in Application No.							
application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received.							
14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).							
a) The translation of the foreign language provisional application has been received.							
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) 💢 No	otice of References Cited (PTO-892)	4) Interview Summary (I	PTO-413) Paper	No(s).			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Applie				(PTO-152)			
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6) Other:							

Art Unit: 3673

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States. (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 45-50 are rejected under 35 U.S.C. 102(b) as being anticipated by EPO (0188358).

EPO '358 discloses a mechanism comprising a plurality of columnar segments (see Fig. 6) in a vertically stacked arrangement, each segment having a vertical surface discontinuity oriented substantially parallel to the axis of the structure (see Fig. 6), the segments being arranged with respect to each other so that the surface discontinuity of each segment is circumferentially displaced from the surface discontinuity of an adjacent segment (see Fig. 6).

3. Claims 45-50 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Gottfried (US 5985385) (see Fig. 1).

4. Claims 45-50 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Knapp (US 5967699) (see Fig. 4).

Page 3

- 5. Claims 45-50 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by British document (GB 2335248) (see Figs. 1,3,4).
- 6. Claims 45-50 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Wipo (WO 98/19018) (see Figs. 4,5).

Response to Arguments

7. Applicant's arguments with respect to claims 45, 49 and 50 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however,

Application/Control Number: 09/808,299

Page 4

Art Unit: 3673

will the statutory period for reply expire later than SIX MONTHS from the date of this final

action.

9. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Sunil Singh whose telephone number is (703) 308-4024. The examiner can

normally be reached on Monday through Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Heather Shackelford, can be reached on (703) 308-2978. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9326.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-2168.

Sunil Singh

HEATHER SHACKELFORD SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600

Patent Examiner

Art Unit 3673

ss S

9/17/03